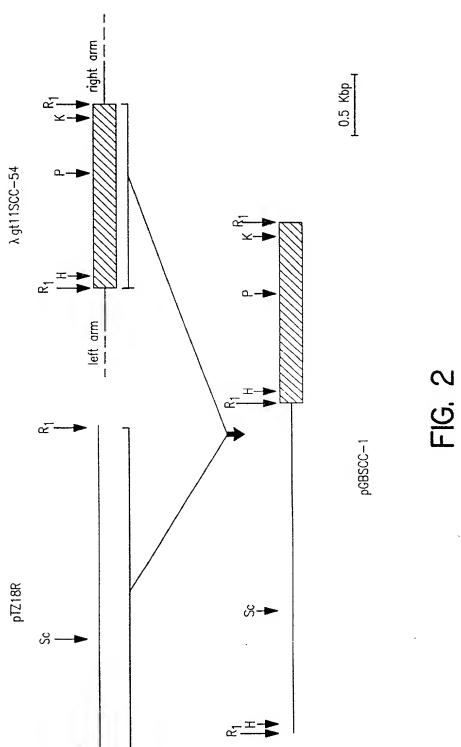
Proteins involved in the succeeding steps	_	Cholesterol
Side chain cleaving enzyme (p <sub>450</sub> SCC) Adrenodoxin (ADX) Adrenodoxinreductase (ADR)	HO CH <sub>3</sub> C=0	3β-hydroxy-5-pregnen- 20-one (pregnenolone)
'3β-Hydroxy-steroid dehydrogenase/isomerase (3β-HSD)	CH <sub>3</sub> C=0	
Steroid $-17\alpha$ - hydroxylase (p <sub>450</sub> 17 $\alpha$ )	O CH <sub>3</sub>	4-pregnene-3 , 20-dione (progesterone)
NADPH cytochrome P <sub>450</sub> reductase (RED)	C=0	17α-hydroxy-4- pregnene-3, 20-dione 17α-hydroxy- progesterone
Steroid -21-hydroxylase (P <sub>450</sub> C21)	CH <sub>2</sub> OH C=0	•
NADPH cytochrome P <sub>450</sub> reductase (RED)	0 - OH	17α - 21-dihydroxy-4- pregnene-3, 20-dione (cortexolone)
Steroid —11ß— hydroxylase (P <sub>450</sub> 11ß)		
Adrenodoxin (ADX) Adrenodoxinreductase (ADR)	HO CH <sub>2</sub> OH	11β,17α,21-
maration (NDIT)	он	trihydroxy-4- pregnene-3 , 20-dione
		(hydrocortisone)

FIG. I



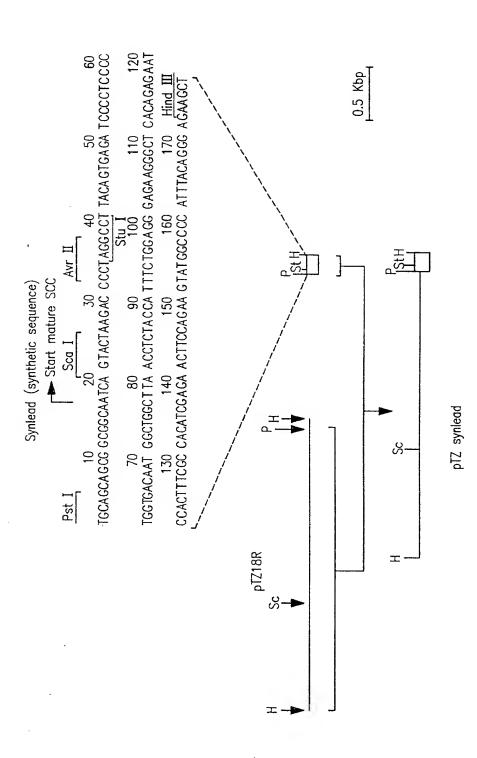
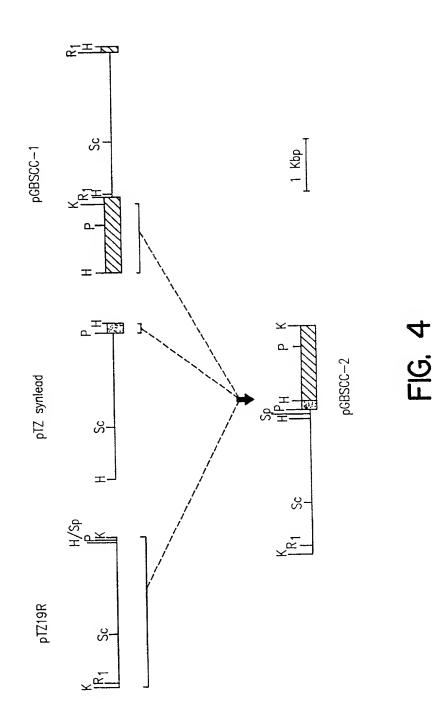


FIG. 3



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90 GAAAAAATT	180 TTTTTGGAG	270 ACATGCAGC	360 GTGGTTACGC	450 GCTTTCCCC	540 GTGATGGTT	630 rccaaactg	720 AGCTGATTT	810 GTATCAGCT	900 GCCAGGAAC	990 AGGTGGCGA	1080 ACCGGATAC
90 TTTTTGGAG ATTTTCAACG TGAAAAATT	TGGAGCCTTT T	270 ATGACGGTGA AAACCTCTGA CACATGCAGC		450 CCITICICGC CACGIICGCC GGCITICCCC	540 CGGCACCTCG ACCCCAAAAA ACTTGATTAG GGTGATGGTT	630 TCTTTAATAG TGGACTCTTG TTCCAAACTG	720 CGGCCTATIG GITAAAAAAI GAGCIGAITI	780 AACAAAAATT TAACGCGAAT TTTAACAAAA TATTAACGTT TACAATTTGA TCTGCGCTCG GTCGTTCGGC TGCGGCGAGC GGTATCAGCT	900 CACTCAAAGG CGGTAATACG GTTATCCACA GAATCAGGGG ATAACGCAGG AAAGAACATG TGAGCAAAAG GCCAGCAAAA GGCCAGGAAC	990 CGAGCATCAC AAAAATCGAC GCTCAAGTCA GAGGTGGCGA	1080 CCTGTTCCGA CCCTGCCGCT TACCGGATAC
	AGGCTCCTTT	ATGACGGTGA	330 TGTAGCGGCG CATTAAGCGC GGCGGGTGTG		ACCCCAAAAA		CGGCCTATTG	GTCGTTCGGC	TGAGCAAAAG	AAAAATCGAC	CCTGTTCCGA
60 TGGAGCCTTT	150 GAAAGCAAGC TGATAAACCG ATACAATTAA	240 ATTCCAAGCT CTGCCTCGCG CGTTTCGGTG		420 TTCTTCCCTT	510 CGCCACCTCG	600 GAGTCCACGT	690 TTGCCGATTT	780 TCTGCGCTCG	870 AAAGAACATG	960 CGAGCATCAC	1050 cereceerer <b>5A</b>
ATACAATTAA AGGCTCCTTT	TGATAAACCG	CIGCCICGCG	CGGATGCAGA TCACGCGCCC	ICCITICGCI	TAGTGCTTTA	TTTGACGTTG	ATAAGGGATT	TACAATTTGA	ATAACGCAGG	GCCCCCTGA	GAAGCTCCCT FIG.
ATACAATTAA	GAAAGCAAGC	ATTCCAAGCT	CGGATGCAGA	TAGCGCCCGC TCCTTTCGCT	GCTTCCGATT TAGTGCTTTA	600 TITITCGCCC TITGACGTIG GAGICCACGI	690 CTTTTGATTT ATAAGGGATT TTGCCGATTT	TATTAACGTT	GAATCAGGGG	CATAGGCICC GCCCCCTGA	TTTCCCCCTG GAAGCTCCCT
30 TGATAAACCG	120 AATTCACCTC	210 ATTATTCGCA	300 TGTCTGTAAG	390 GCCAGGGCCC	480 CTCCCTTTAG	570 TGATAGACGG	660 TCGGTCTATT	750 TTTAACAAAA	840 GTTATCCACA		1020 ATACCAGGCG
30 AATTCACCTC GAAAGGAAGC TGATAAACCG	120 ATTATTCGCA ATTCCAAGCT AATTCACCTC	210 ATTTTCAACG TGAAAAAATT ATTATTCGCA	300 TCCCGGAGAC GGTCACAGCT TGTCTGTAAG	390 GCAGCGTGAC CGCTACACTT GCCAGCGCCC	480 GTCAAGCTCT AAATCGGGGG CTCCCTTTAG	570 CACGTAGTGG GCCATCGCCC TGATAGACGG	660 GAACAACACT CAACCCTATC TCGGTCTATT	TAACGCGAAT	CGGTAATACG	930 CGTAAAAAGG CCGCGTTGCT GGCGTTTTTC	1020 AACCCGACAG GACTATAAAG ATACCAGGCG
AATTCACCTC	ATTATTCGCA	ATTTCAACG	TCCCGGAGAC	GCAGCGTGAC	GTCAAGCTCT	CACGTAGTGG	GAACAACACT	AACAAAAATT	CACTCAAAGG	CGTAAAAAGG	AACCCGACAG

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1170	1260	1350	1410	1530	1620	1710	1800	1890	1980	2070	
CTGTCCGCCT TTCTCCCTTC GGGAAGCGTG GCGCTTTCTC ATAGCTCACG CTGTAGGTAT CTCAGTTCGG TGTAGGTCGT TCGCTCCAAG	CTGGGCTGTG TGCACGAACC CCCCGTTCAG CCCGACCGCT GCGCCTTATC CGGTAACTAT CGTCTTGAGT CCAACCCGGT AAGACACGAC	TTATCGCCAC TGGCAGCAGC CACTGGTAAC AGGATTAGCA GAGCGAGGTA TGTAGGCGGGT GCTACAGAGT TCTTGAAGTG GTGGCCTAAC	TACGGCTACA CTAGAAGGAC AGTATTTGGT ATCTGCGCTC TGCTGAAGCC AGTTACCTTC GGAAAAGAG TTGGTAGCTC TTGATCCCGC	AAACAAACCA CGGCTGGTGGTTTT TTTGTTTGCA AGCAGCAGAT TACGCGCAGA AAAAAAGGAT CTCAAGAAGA TCCTTTGATC	TITICTACGG GGICTGACGC TCAGTGGAAC GAAAACTCAC GTTAAGGGAT TITGGTCATG AGAITATCAA AAAGGATCTT CACCTAGATC	CTITIAAATT AAAAATGAAG TITIAAATCA ATCTAAAGTA TATATGAGTA AACTIGGICT GACAGTIACC AATGCTTAAT CAGTGAGGCA	CCTATCTCAG CGATCTGTCT ATTTCGTTCA TCCATAGTTG CCTGACTCCC CGTCGTGTAG ATAACTACGA TACGGGAGGG CTTACCATCT	GGCCCCAGTG CTGCAATGAT ACCGCGAGAC CCACGCTCAC CGGCTCCAGA TTATCAGGA ATAAACCAGC CAGCCGGAAG GGCCGAGGCG	AGAAGTGGTC CTGCAACTTT ATCCGCCTCC ATCCAGTCTA TTAATTGTTG CCGGGAAGCT AGAGTAAGTA GTTCGCCAGT TAATAGTTTG	CGCAACGTIG TIGCCAITGC IGCAGGCAIC GIGGIGICAC GCICGICGII IGGIAIGGCI ICATICAGCI CCGGIICCCA ACGAICAAGG	

#### FIG. 5B

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2160 CGCAGTGTTA	2250 CTCAACCAAG	2340 AACTTTAAAA	2340 CACTCGTGCA	2520 GGGAATAAGG	2610 TATTTTATC	2700 GCGCGCGATG	2790 CTGCCATTCA	2880 CCCTGCCACT	2970 AGCGGCATCA
2160 GTTGTCAGAA GTAAGTTGGC CGCAGTGTTA	2250 TCACTCATGG TTATGGCAGC ACTGCATAAT TCTCTTACTG TCATGCCATC CGTAAGATGC TTTTCTGTGA CTGGTGAGTA CTCAACCAAG	2340 TCATICIGAG AATAGIGIAT GCGGCGACCG AGTIGCICIT GCCCGGCGIC AACACGGGAT AATACCGCGC CACATAGCAG AACTITAAAA	2340 GIGCICATCA TIGGAAAACG TICITICGGGG CGAAAACTCT CAAGGAICTT ACCGCIGITG AGAICCAGIT CGAIGIAACC CACICGIGCA	2490 CCCAACTGAT CITCAGCAIC TITTACITIC ACCAGCGIIT CIGGGIGAGC AAAAACAGGA AGGCAAAAIG CCGCAAAAAA GGGAATAAGG	2580 GCGACACGGA AATGTTGAAT ACTCATACTC TTCCTTTTTC AATATTATTG AAGCAGACAG TTTTATTGTT CATGATGATA TATTTTTATC	2670 TIGTGCAATG TAACATCAGA GATTTTGAGA CACAACGTGG CTTTGTTGAA TAAATCGAAC TTTGCTGAG TTGACTCCCC GCGCGCATG	2750 GGTCGAATIT GCTTTCGAAA AAAAAGCCCG CTCATTAGGC GGGCTAAAAA AAAGCCCGCT CATTAGGCGG GCTCGAATIT CTGCCATTCA	2820 TCCGCTIAIT ATCACTIAIT CAGGCGTAGC AACCAGGCGT TTAAGGGCAC CAATAACTGC CTTAAAAAAA TTACGCCCCG CCCTGCCACT	2910 CATCGCAGTA CTGTTGTAAT TCATTAAGCA TTCTGCCGAC ATGGAAGCCA TCACAGACGG CATGATGAAC CTGAATCGCC AGCGGCATCA
GTTGTCAGAA	TTTTCTGTGA	AATACCGCGC	AGATCCAGTT	AGGCAAAATG	TTTTATTGTT	TTTTGCTGAG	CATTAGGCGG	CTTAAAAAAA	CATGATGAAC
2130 CGAGTTACAT GATCCCCCAT GTTGTGCAAA AAAGCGGTTA GCTCCTTCGG TCCTCCGATC	2220 CGTAAGATGC	2310 AACACGGGAT	2400 ACCGCTGTTG	2490 AAAAACAGGA	2580 AAGCAGACAG	2670 TAAATCGAAC	2760 AAAGCCCGCT	2850 CAATAACTGC	2940 TCACAGACGG
GCTCCTTCGG	TCATGCCATC	OLECEGETC	CAAGGATCTT	CIGGGIGAGC	AATATTTG	CTTTGTTGAA	GGCCTAAAAA	TTAAGGGCAC	ATGGAAGCCA
AAAGCGGTTA	TCTCTTACTG	AGTTGCTCTT	CGAAAACTCT	ACCAGCGTTT	TTCCTTTTTC	CACAACGTGG	CTCATTAGGC	AACCAGGCGT	TTCTGCCGAC
2100 GTTGTGCAAA	2190 ACTGCATAAT	2280 GCGCGACCG	2370 TTCTTCGGGG	2460 TTTTACTTTC	2550 ACTCATACTC	2640 GATTTTGAGA	2730 AAAAAGCCCG	2820 CAGGCGTAGC	2910 TCATTAAGCA
GATCCCCCAT	TTATGGCAGC	AATAGTGTAT	TTGGAAAACG	CTTCAGCATC	AATGTTGAAT	TAACATCAGA	GCTTTCGAAA	ATCACTTATT	CTGTTGTAAT
CGAGTTACAT	TCACTCATGG	TCATTCTGAG	GTGCTCATCA	CCCAACTGAT	GCGACACGGA	TTGTGCAATG	GGTCGAATTT	TCCGCTTATT	CATCGCAGTA

#### FIG. 5C

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3060 TCAAAACTGG	3150 TAACACGCCA	3240 TCATGGAAAA	3330 ATCAGGCGGG	3420 ACGGTCTGGT	3510 CCAGTGATTT	3600 TGGTGAAAGT	3690 GGATTTATTT	3780 CGATATCGCA	3870 AAAAGAACG	3960 ACCTGAAAAG
3060 GCACCTIGIC GCCTIGCGIA TAATATITGC CCATAGIGAA AACGGGGGCG AAGAAGITGT CCATATICGC CACGITTAAA ICAAAACIGG	3120 3150 TGAAACTCAC CCAGGGATTG GCTGAGACGA AAAACATATT CTCAATAAAC CCTTTAGGGA AATAGGCCAG GTTTTCACCG TAACACGCCA	3240 CATCTTGCGA ATATATGTGT AGAAACTGCC GGAAATCGTC GTGGTATTCA CTCCAGAGCG ATGAAAACGT TTCAGTTTGC TCATGGAAAA	3330 GGTGTAACA AGGGTGAACA CTATCCCATA TCACCAGCTC ACCGTCTTTC ATTGCCATAC GAAATTCCGG ATGAGCATTC ATCAGGCGGG	33420 CAAGAATGTG AATAAAGGCC GGATAAAACT TGTGCTTATT TTTCTTTACG GTCTTTAAAA AGGCCGTAAT ATCCAGCTAA ACGGTCTGGT	3480 CCTCAAAATG TTCTTTACGA TGCCATTGGG ATATAYCAAC GGTGGTATAT CCAGTGATTT	3570 TITICICCAT ITTAGCITCC TIAGCICCIG AAAAICICGA TAACICAAAA AAIACGCCCG GIAGIGAICI IAITICAITA IGGIGAAAGI	3690 TGGAACCICT TACGTGCCGA TCAACGTCTC ATTTTCGCCA AAAGTTGGCC CAGGGCTTCC CGGTATCAAC AGGGACACCA GGATTTATTT	3780 ATTCTGCGAA GTGATCTTCC GTCACAGGTA TTTATTCGAA GACGAAAGGG CATCGCGCGC GGGGAATTCC CGGGAGGCT CGATATCGCA	3870 TGCGGTACCT CTAGAAGAAG CTTGGAGACA AGGTAAAGGA TAAAACAGCA CAATTCCAAG AAAAACACGA TTTAGAACCT AAAAAGAACG	3960 AATTTGAACT AACTCATAAC CGAGAGGTAA AAAAAGAACG AAGTCGAGAT CAGGGAATGA GTTTATAAAA TAAAAAAAGC ACCTGAAAAG
CCATATTCGC	AATAGGCCAG	ATGAAAACGT	GAAATTCCGG	AGGCCGTAAT	ATATATCAAC	GTAGTGATCT	CGGTATCAAC	GGGGAATTCC	AAAAACACGA	GTTTATAAAA
3030 AAGAAGTTGT	3120 CCTTTAGGGA	3210 CTCCAGAGCG	3300 ATTGCCATAC	3390 GTCTTTAAAA	3480 TGCCATTGGG	3570 AATAGGCCCG	3660 CAGGGCTTCC	3750 CATCGCGCGC	3840 . CAATTCCAAG	3930 CAGGGAATGA
AACGGGGGCG	CTCAATAAAC	GTGGTATTCA	ACCGTCTTTC	TTTCTTTACG	TTCTTTAGGA	TAACTCAAAA	AAAGTTGGCC	GACGAAAGGG	. TAAAACAGCA	; AAGTCGAGAT
CCATAGTGAA	AAAACATATT	GGAAATCGTC	TCACCAGCTC	TGTGCTTATT	CCTCAAAATG	AAAATCTCGA	ATTTTCGCCA	TTTATTCGAA	AGGTAAAGGA	AAAAAGAACG
3000 TAATATTTGC	3090 GCTGAGACGA	3180 AGAAACTGCC	3270 CTATCCCATA	3360 GGATAAAACT	3450 GACTGAAATG	3540 TTAGCTCCTG	3630 TCAACGTCTC	3720 GTCACAGGTA	3810 CTTGGAGACA	3900 CGAGAGGTAA
GCCTTGCGTA	CCAGGGATTG	ATATATGTGT	AGGGTGAACA	AATAAAGGCC	3450 TATAGGTACA TTGAGCAACT GACTGAAATG	TTTAGCTTCC	TACGIGCCGA	GIGAICTICC	: CTAGAAGAAG	: AACTCATAAC
GCACCTIGIC	TGAAACTCAC	CATCTTGCGA	CGGTGTAACA	CAAGAATGTG	TATAGGTACA	TTTTCTCCAT	TGGAACCTCT	ATTCTGCGAA	TGCGGTACCI	AATTTGAACI

#### FIG. 5D

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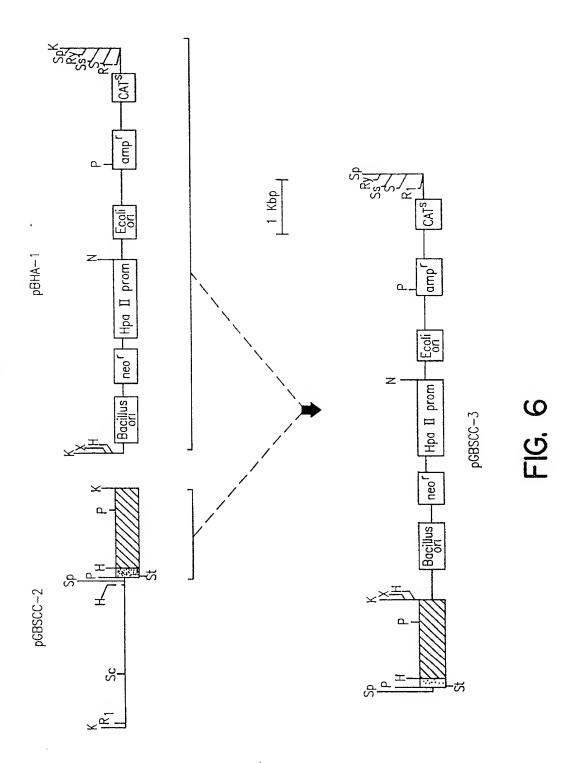
GTGTCTTTTT	39 GTGTCTTTTT TTGATGGTTT TGAACTTG	90 TT	CTTTCTTATC	TTGATACATA	4020 TAGAAATAAC	GTĊATTTTA '	4050 CTTTCTTATC TTGATACATA TAGAAATAAC GTCATTTTTA TTTTAGTTGC TGAAAGGTGC	4050 TGAAAGGTGC
Հուրանգ A GT GT	TGGTATGTAT	4110 4080 GTTGAAGTGT TGGTATGTAT GTGTTTAAA GTATTGAAAA CCCTTAAAAT TGGTTGCACA GAAAAACCCC ATCTGTTAAA GTTATAAGTG	GTATTGAAAA	CCCTTAAAAT	4119 TGGTTGCACA	GAAAAACCCC	ATCTGTTAAA	4140 GTTATAAGTG
ACTAAACAAA	TAACTAAATA	4170 ACTAAACAAA TAACTAAATA GATGGGGGTT	TCTTTTAATA	TTATGTGTCC	4200 TAATAGTAGC	ATTTATTCAG	4230 TCTTTTAATA TTATGTGTCC TAATAGTAGC ATTTATTCAG ATGAAAAATC AAGGGTTTTA	4230 AAGGGTTTTA
GTGGACAAGA	CAAAAAGTGG	4260 GTGGACAAGA CAAAAGTGG AAAAGTGAGA	CCATGGAGAG	AAAAGAAAAT	4290 CCATGGAGAG AAAAGAAAAT CGCTAATGTT	GATTACTTTG	4320 GATTACTTTG AACTTCTGCA TATTCTTGAA	4320 TATTCTTGAA
TTTAAAAAGG	CTGAAAGAGT	4350 TTTAAAAAGG CTGAAAGAGT AAAAGATTGT	GCTGAAATAT	TAGAGTATAA	4380 GCTGAAATAT TAGAGTATAA ACAAAATCGT	GAAACAGGCG AAAGAAAGTT		4410 GTATCGAGTG
TGGTTTTGTA	AATCCAGGCT	4440 TGGTTTTGTA AATCCAGGCT TTGTCCAATG	TGCAACTGGA	GGAGAGCAAT	4470 TGCAACTGGA GGAGAGCAAT GAAACATGGC	ATTCAGTCAC AAAAGGTTGT	AAAAGGTTGT	4500 TGCTGAAGTT
ATTAAACAAA	AGCCAACAGT	4560 ATTAAACAAA AGCCAACAGT TCGTTGGTTG TTTCTCACAT TAACAGTTAA AAATGTTTAT	TTTCTCACAT	TAACAGTTAA	4560 AAATGTTTAT	GATGGCGAAG	4590 GATGGCGAAG AATTAAATAA GAGTTTGTCA	4590 GAGTTTGTCA
GATATGGCTC	AAGGATTTCG	4620 GATATGGCTC AAGGATTTCG CCGAATGATG	CAATATAAAA	AAATTAATAA	4650 CAATATAAAA AAATTAATAA AAATCTTGTT	GGTTTTATGC	4680 GGTTTTATGC GTGCAACGGA AGTGACAATA	4680 AGTGACAATA
AATAATAAAG	ATAATTCTTA	4740 AATAATAAAG ATAATTCTTA TAATCAGCAC ATGCATGTAT TGGTATGTGT GGAACCAACT	ATGCATGTAT	TGGTATGTGT	4740 GGAACCAACT		4770 TATTTTAAGA ATACAGAAAA CTACGTGAAT	4770 CTACGTGAAT
CAAAAACAAI	GGATTCAATT	4800 CAAAAACAAT GGATTCAATT TTGGAAAAAG GCAATGAAAT	GCAATGAAAT	TAGACTATGA	4830 TCCAAATGTA		4860 AAAGTTCAAA TGATTCGACC GAAAAATAAA	4860 GAAAAATAAA
TATAAATCGG	; ATATACAATC	4890 ATATACAATC GGCAATTGAC GAAACTGCAA AATATCCTGT	GAAACTGCAA	AATATCCTGT	4920 AAAGGATACG		4950 GATTTTATGA CCGATGATGA AGAAAGAAT	4950 AGAAAAGAAT
TTGAAACGTI	TGTCTGATTT	4980 TTGAAACGTT TGTCTGATTT GGAGGAAGGT	TTACACCGTA	TTACACCGTA AAAGGTTAAT	5010 CTCCTATGGT		AAGAAATACA	5040 GGTTTGTTAA AAGAAATACA TAAAAAATTA
				FIG. 5E	<b>5E</b>			

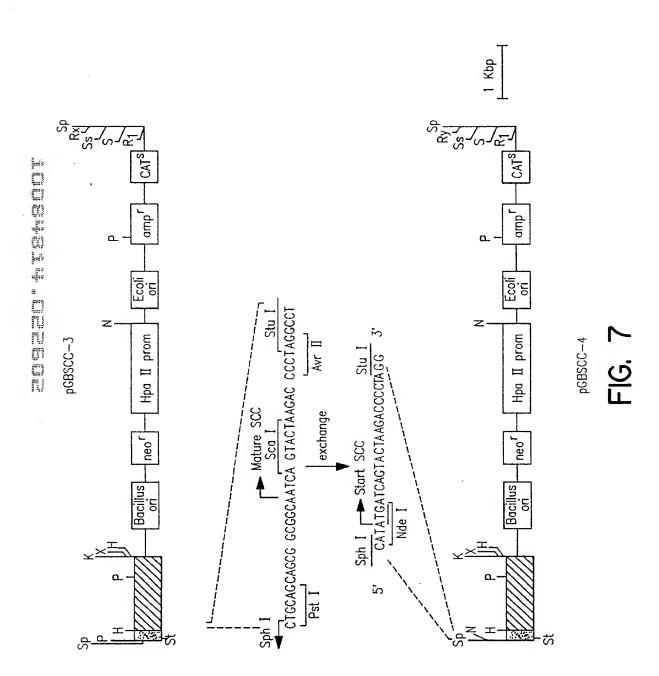
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5130 TTTCTATTAT TGCAATGTGG	5220 TATAATTG TTATTAAAAG	5310 ATATICTTAT TTAGAAAGC AAATCTAAAA	5370 AGAAGAAAGA ATGAAGATTG TTCATGAAAT TAAGGAACGA	5490 CAGACTGATG GGCCCTATTC GGATATTGAG	5580 TGGAAGGTGG AAGTGAATTT TGATAGCGAA	5670 TITITCTCTA TITIGCCGAT ITATGATICA	5760 TAGAAGCCCA AACGTTCCAC GATGCGATTT GTGCCCTTAT CGTAGAAGAG	5850 ATTCGTGTGC AAGGACCGAC AACATTTCTA CCATCCTTGA CTGTACAGGT AGCAATGGCA	5940 ATCTGTTATA CGACGAGGGC TTCGGTCTTA ACTGAAGCAG TTAAGCAATC AGATCTTCCT	6030 CTTCTGGAAT CGCTAGAGAA TTTCTGGAAT	6120 TTTTGAACGA TGACCTCTAA TAATTGTTAA	
GAAGATGGAT	AAGATTAGAT GCTATAATTG		ATGAAGATTG TT	CAGACTGATG GG	TGGAAGGTGG AA		GATGCGATTT GT	CCATCCTTGA CT	ACTGAAGCAG TT	CTTCTGGAAT CG		
5100 AAAAGCCGAT	5190 CAGTTTGTTG	5280 TGCTCTCCAA	5370 AGAAGAAAGA	5460 TCTTGGTCGT	5550 AACCGGTGAG	5640 GGCCGCTTAC ACATGGTCAA	5730 AACGTTCCAC	5820 AACATTTCTA	5910 TTCGGTCTTA	6000 CTCTGAGAAA	6090 ACGCATACCA <b>5F</b>	
ATGATGACGA	ACAAACGGGC		TAATGACTAG	TTTATGGCTC	ATGAATGGAC	GGCCGCTTAC	TAGAAGCCCA	AAGGACCGAC	CGACGAGCGC	AACTTTCCGA	atgtgtcaaa acgc FIG. 5F	
5100 ATTCATACAG ATGATGACGA AAAAGCCGAT	GAGTAGTTCA ACAAACGGGC	TAATAGCTGA ATAAGAACGG	GGACCAATAA TAATGACTAG	GCTATTGGTG	5550 GAGTTCAGCC ATGAATGGAC AACCGGTGAG	GAATCAGATT	GCTAAATCGG	ATTCGTGTGC	ATCTGTTATA	6000 ATGICTGGIC AACTITCGGA CTCTGAGAAA	TATATAGTGG ATGTGTCAAA ACGCATACCA FIG. 5F	
					5520 AGAGGAAGCA				5880 GCATCATCGC	5970 CCAGTTCGTA	060 GGA	
5070 AACCTIGATG ACACAGAAGA AGGCGATTTG	5160 AATTGGGAAC GGAAAAATTA TTTTATTAAA	5250 GATTGAAGGA TGCTTAGGAA GACGAGTTAT	5340 TTATCTGAAA AGGGAATGAG AATAGTGAAT	5430 ATATTGGATA AATATGGGGA TGATGTTAAG	5520 ATGATGTG TCATGTCAAC AGAGGAAGCA	5610 GAGATTCTAC TAGATTATGC ATCTCAGGTG	5700 GGTGGATACT TAGAGAAAGT GTATCAAACT	5790 CTGTTTGAAT ATGCAGGCAA ATGGCGTAAT	5880 GGTGCCATGT TGATTGGTCT GCATCATCGC	5 TCAGGITAIG ACCAICIGIG CCAGIIC	6060 GGGATTCAGG AGTGGACAGA ACGACGGA	
AACCTTGATG	AATTGGGAAC	GATTGAAGGA	TTATCTGAAA	ATATTGGATA	ATGATGTGTG	GAGATTCTAC	GGTGGATACT	CTGTTTGAAT	GGTGCCATGT	TCAGGTTATG	GGGATTCAGG	

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6210 GTGTGCTTAA	6300 AAAATGAAAG	6390 CGATAAACTA	6480 TGATGAAGGC	6570 AGTAGAGGGA	6660 ACGAGACITI	6750 AATCGGGCGC	6840 SAAAGACAAT	6930 TGGAGATTTT	7020 GGTGGCAGAG	7110 AGCCTCGCAG	7200 CATTTGTGCC	7290 GAGCTCAAGC	
GCGCATTAAC GGAATAAAGG	6300 TTTACATTAG AAAATGAAAG	GTTTTTATTG	GGGAGGCAAG	ACTGCTAGTT GCCGCATTGA	AAAGATCAGT GGTGGGATGA 1	TCTGTTCAGC 4	6840 GTCCGTTACA CTAGAAAACC GAAAGACAAT	AATTGGCAAG GGTTTAAAGG 1	CCTTTGCTGA (	7110 TTTTGGTCGG CACTGCCGAC AGCCTCGCAG		CTCTAGAGTC 0	
	AGGTAATAGA	AAGAGTATAG	ATTCATCTAT			CTATTATTAA			GCAAAACCCC		GAAAGAGCGA AAATGCCTCA	CAGGGGGATC	
6180 GGCTGTCATG	6270 ATCGGGCCAT TTTGCGTAAT AAGAAAAGG ATTAATTATG AGCGAATTGA ATTAATAATA	6360 GGATATTAAA	6450 TGAGGTTCGG	6540 TATTGCTGGT	6630 TACATCATTA	6720 AAGCTAAAAT	6810 GAGTGGTTTT	6900 ACAAAATAAA	6990 GAGCACGAGA	7080 GGTTTTATGG	7170 GTGGTTGCCG	7260 TAGAATGCAA AAAGTGAAAT	FIG. 5G
TAATTATCAT	AGCGAATTGA	TGCCAGTCGG	TAATGTGTAA	TGTACAGGTG CGGAGTCGTT	TGCACCCCAA	AACAAATAAA	TTTTATTT	GACAAAACGG	ATTTTAAAC	AAAAAAGAA AGGTCTTAAA	TTACTTGGAA		
CTAGTATTAG	ATTAATTATG	ATCCCGGCAT	TTCGCAGTTC		TTGGGCATTT	AGCTTTTTC	TCTTGTATCT	CGGTAAGCTA	TCCCTTGCTG	AAAAAAGAA	GTGTTATACT	ATGCAGTTTG	GCGTTCTAGA GGTCGA
6150 TCATGTTGGT TACGTATTTA TTAACTTCTC	6240 AAGAAAAAGG	6330 GGGATTTTAT GCGTGAGAAT GTTACAGTCT	6420 GGTTTCACTT TGGTTCACCA TGAAGATGGA	6510 TGGCGCTCTC GTAGTAATGA TTCACCGGTT	6600 ATTGATGAAT TATATCAACA TATTAAGCCT	6690 GCAGTAATTG ATCCCGACAA CAATTTGATT	6780 GAGAGACCTC	6870 AAAAATTTTA TTCTTGCTGA GTCTGGCTTT	6960 ATACTACCTG	7050 TTTTCTCGTA	7140 GACACACACT TTATGAATAT AAAGTATAGT	7230 ACCTAAAAAG GAGCGATTTA CATATGAGTT	7320 TAGCTIGGTA CGTACCAGAT CTGAGATCAC
TACGTATTTA	TTTGCGTAAT	GCGTGAGAAT	TGGTTCACCA	GTAGTAATGA	TATATCAACA	ATCCCGACAA	67 GATTGCTGAA TAAAAGATAC GAGAGACC	TTCTTGCTGA	69 TTGAGTGATC TTCTCAAAAA ATACTACC	70 GGCAGGTITT TITGTITCTT TITICTCG	TTATGAATAT	GAGCGATTTA	CGTACCAGAT
TCATGTTGGT	ATCGGGCCAT	GGGATTTTAT	GGTTTCACTT	TGGCGCTCTC	ATTGATGAAT	GCAGTAATTG	GATTGCTGAA	AAAAATTTTA	TTGAGTGATC	GGCAGGTTTT	GACACACACT	ACCTAAAAAG	TAGCTTGGTA





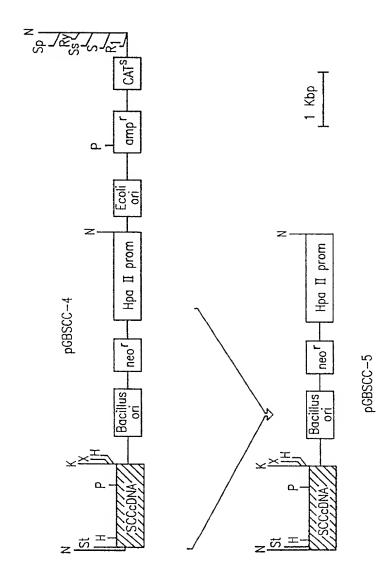


FIG. 8

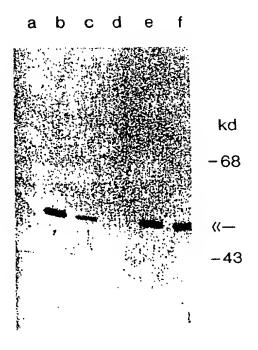


FIG. 9

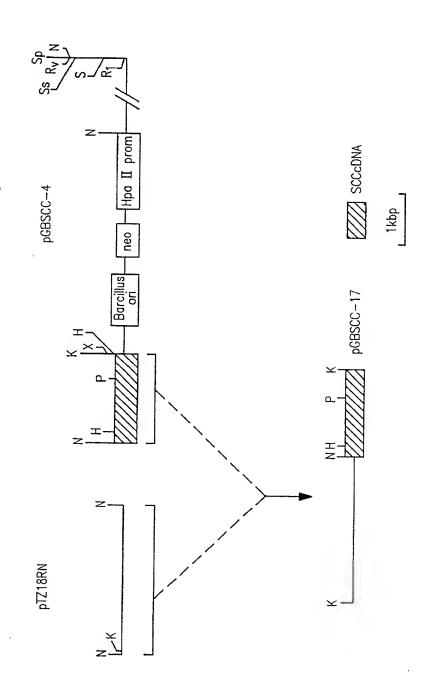
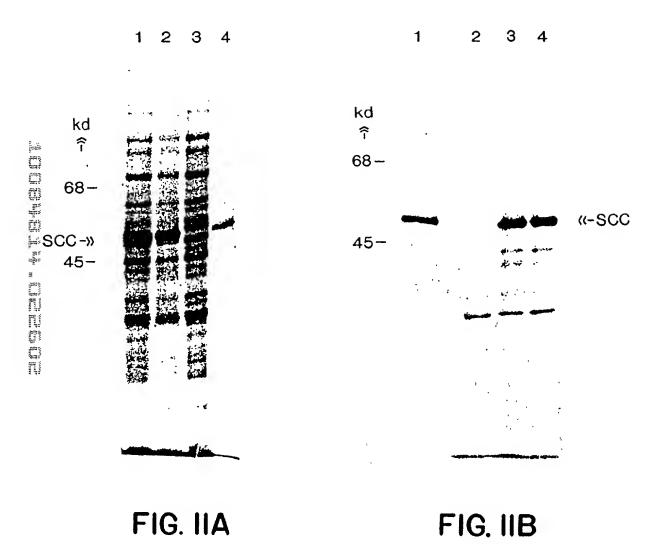


FIG. 10



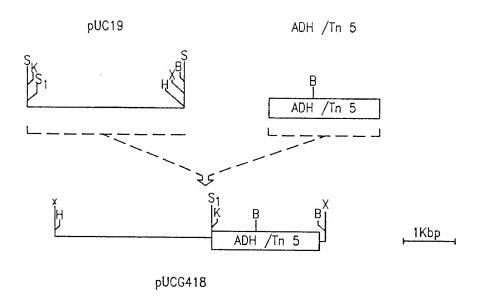
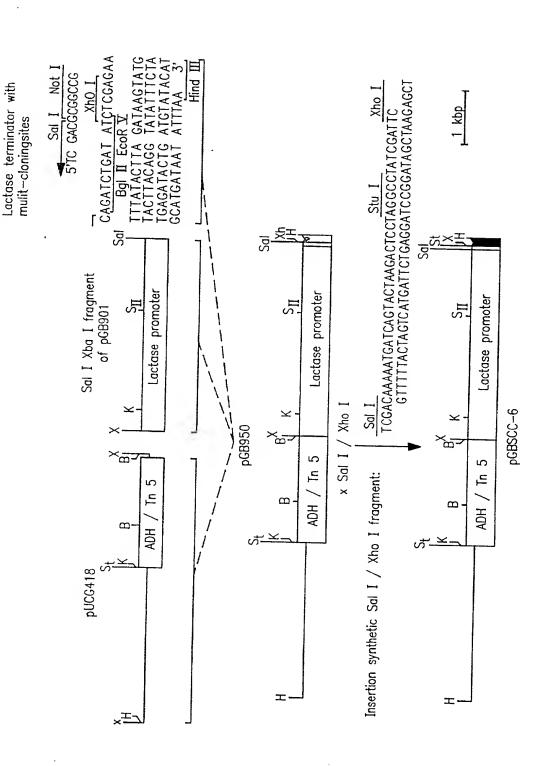
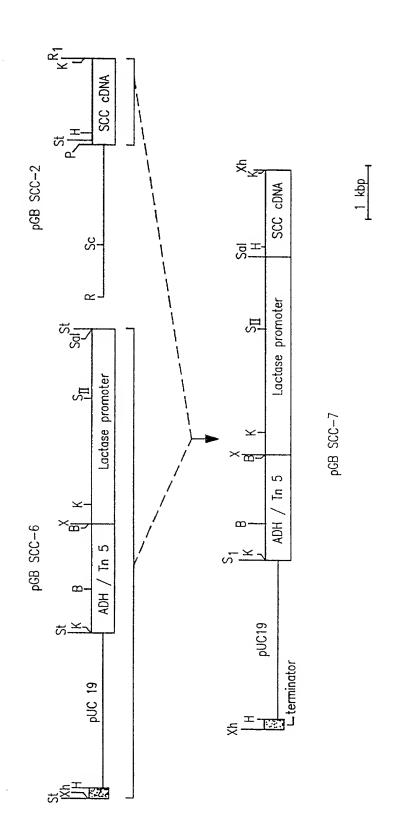


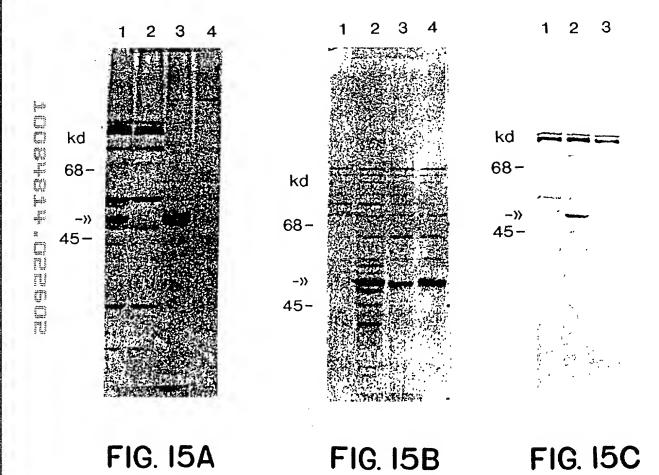
FIG. 12

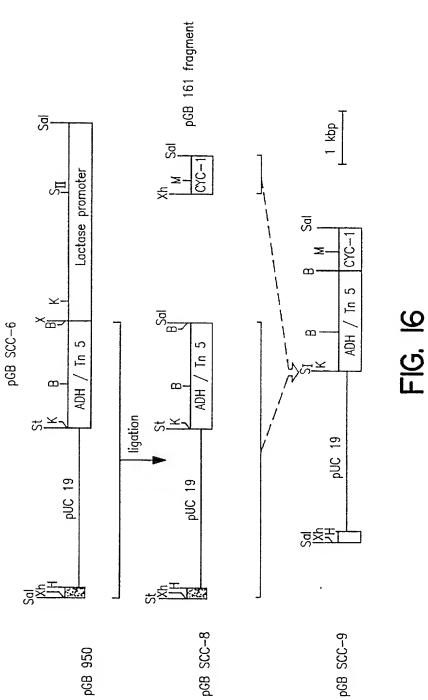


F1G, 13



F1G. 14





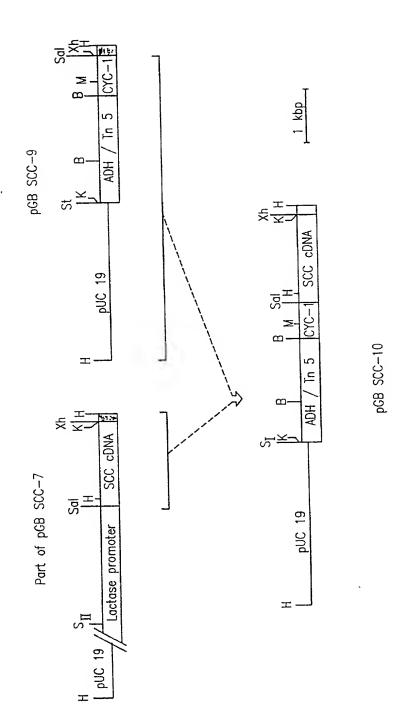
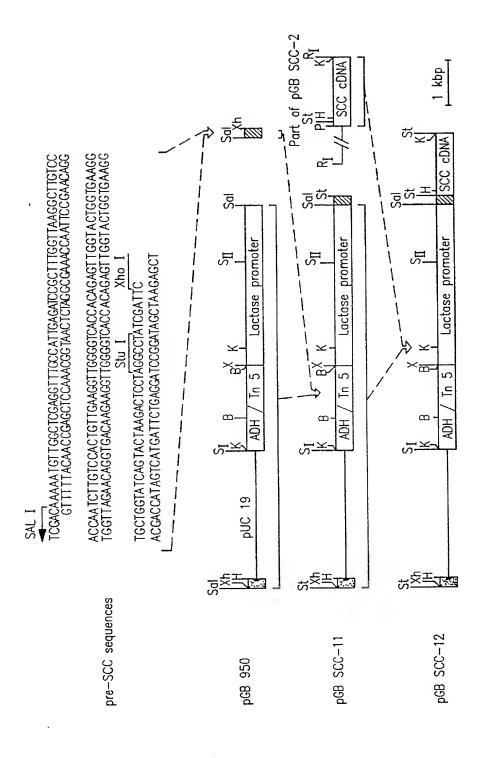
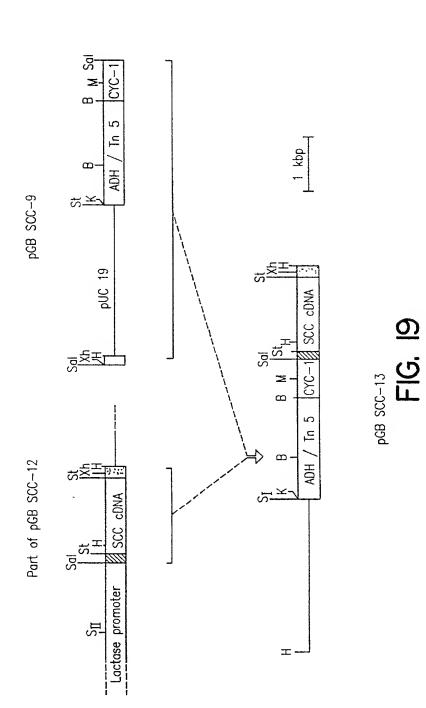


FIG. 17



F1G, 18



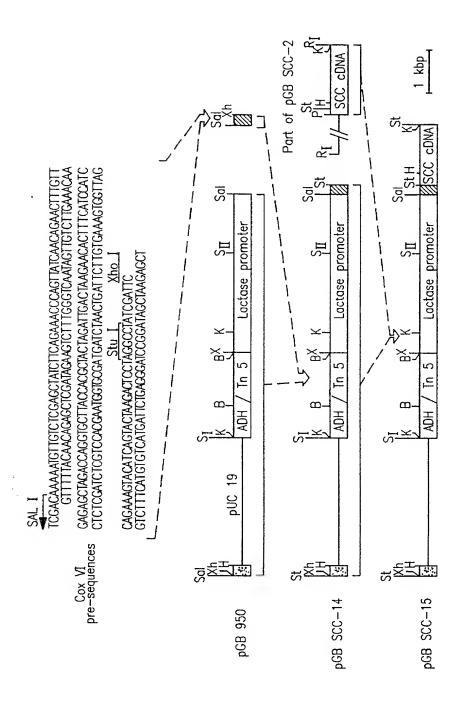
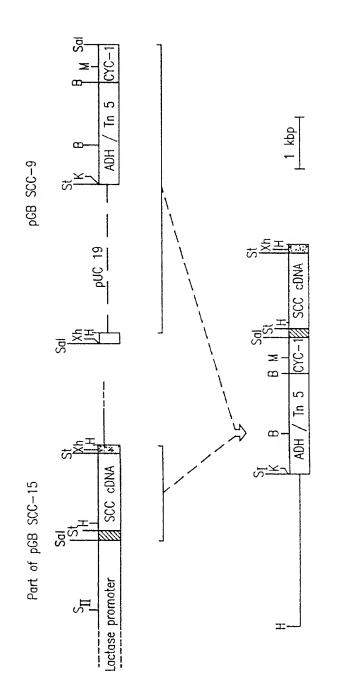
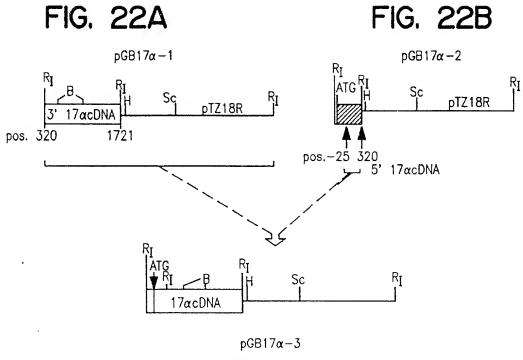


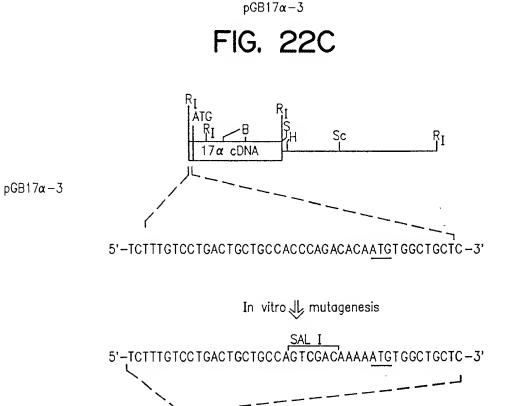
FIG. 20



F1G. 21

pGB SCC-16

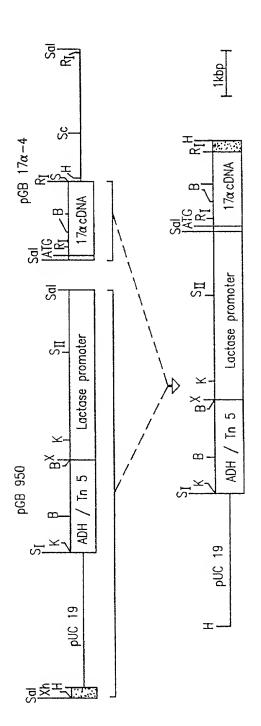




pGB17α-4

PGB17α-4

FIG. 23



pGB 17α-5 FIG. 24

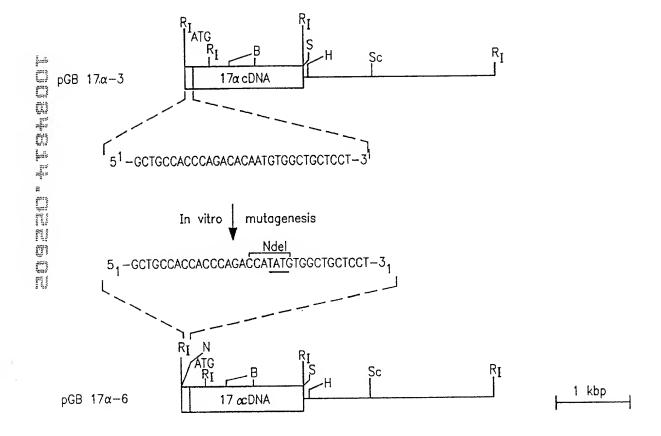


FIG. 25

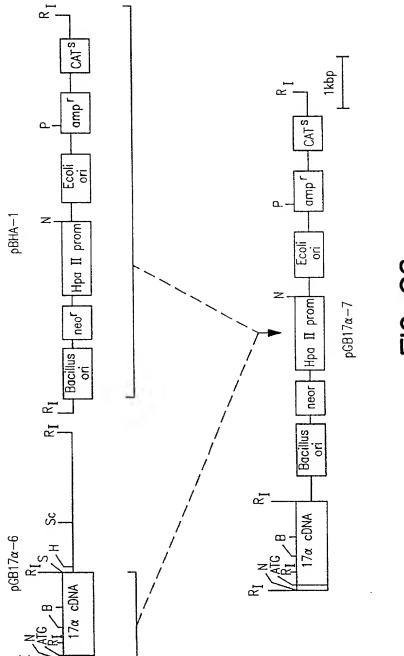


FIG. 26

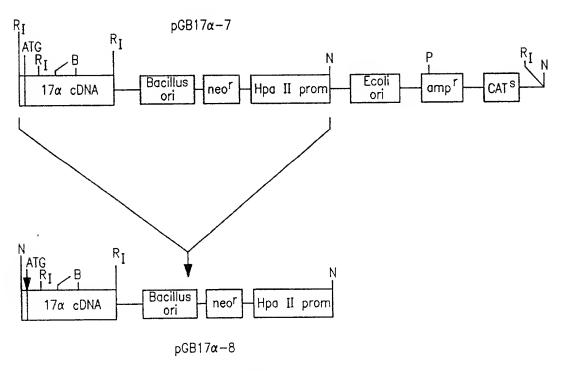


FIG. 27

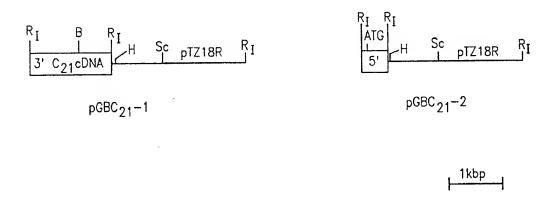


FIG. 28

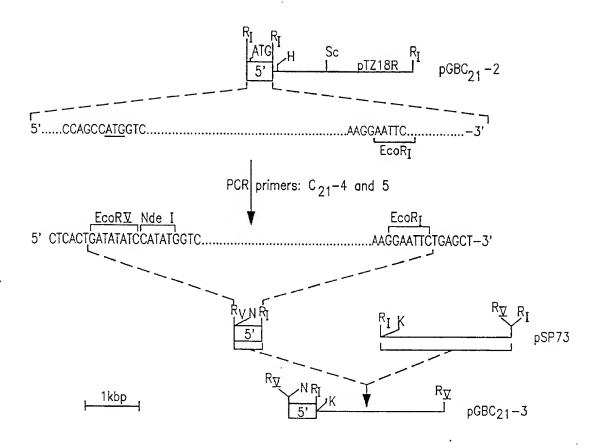


FIG. 29

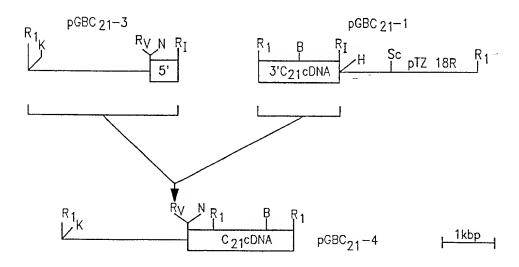
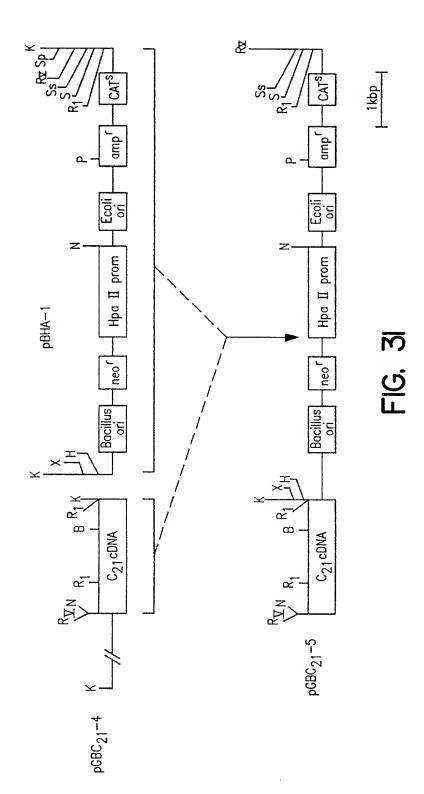


FIG. 30



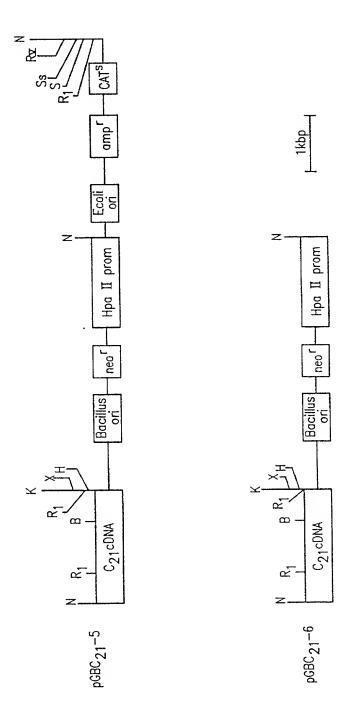


FIG. 32

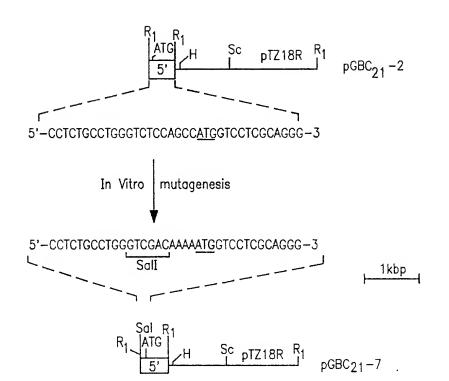


FIG. 33

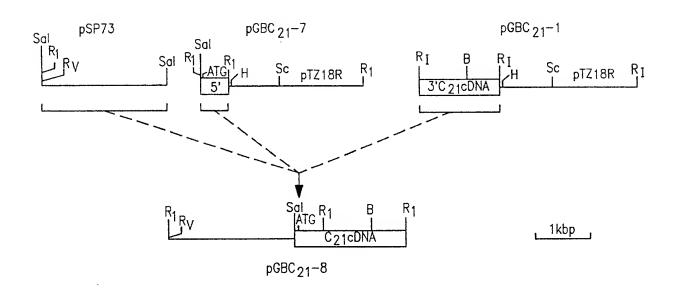


FIG. 34

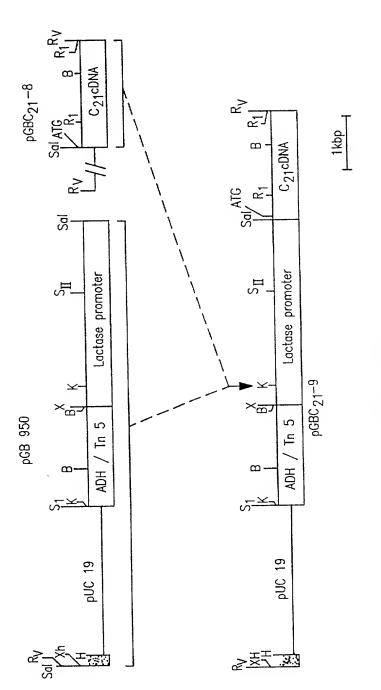


FIG. 35

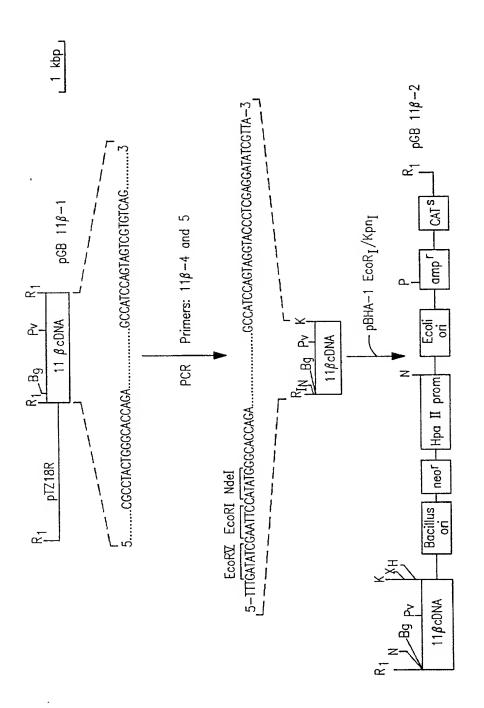


FIG. 36

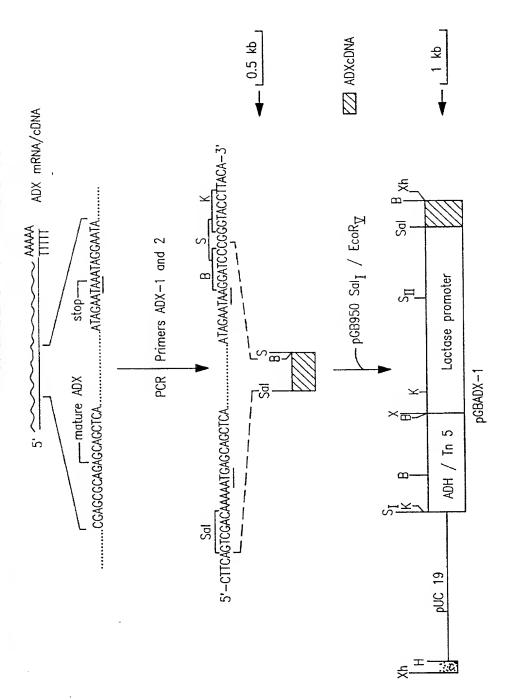


FIG. 38

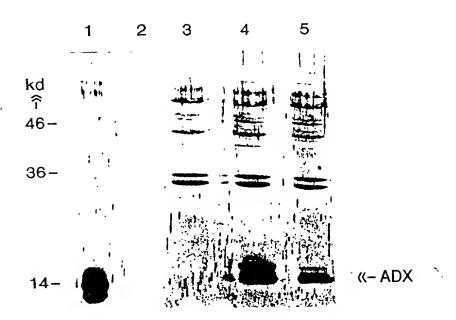


FIG. 39

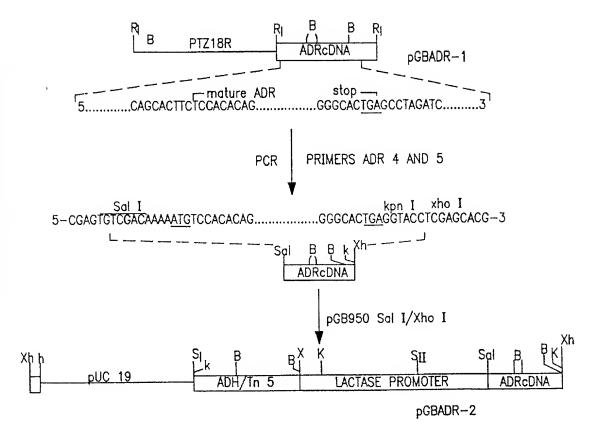
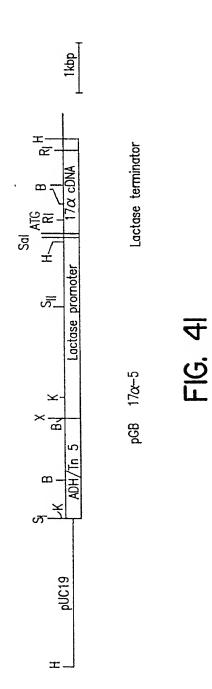
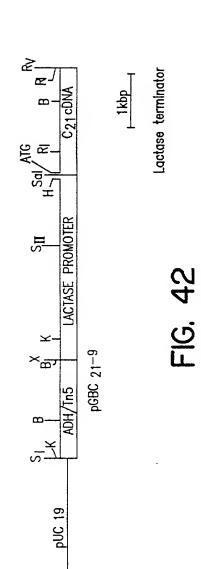


FIG. 40





S ₹₹Ţ

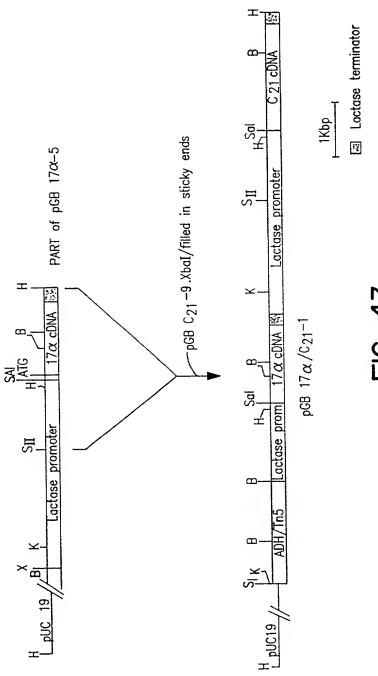


FIG. 43

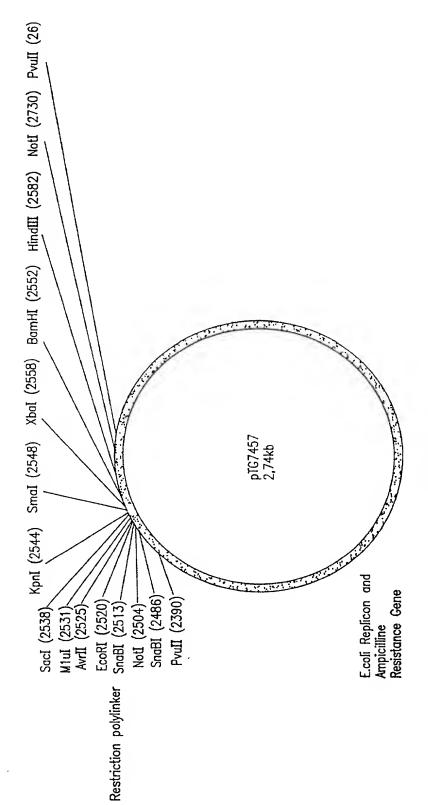


FIG. 44

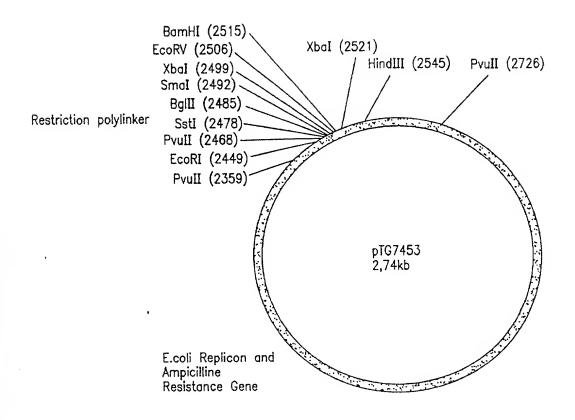


FIG. 45

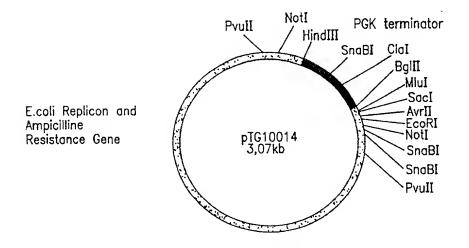


FIG. 46

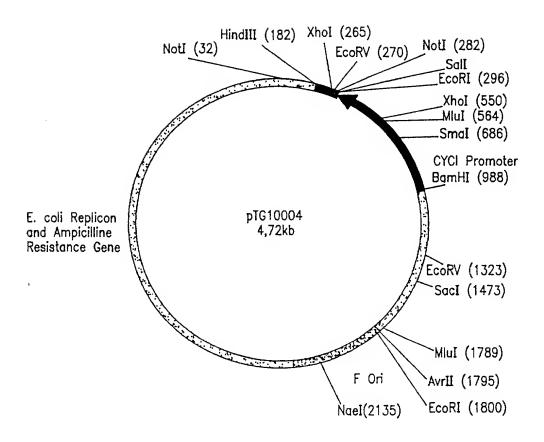


FIG. 47

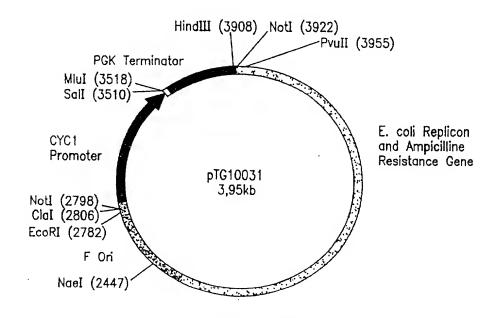


FIG. 48

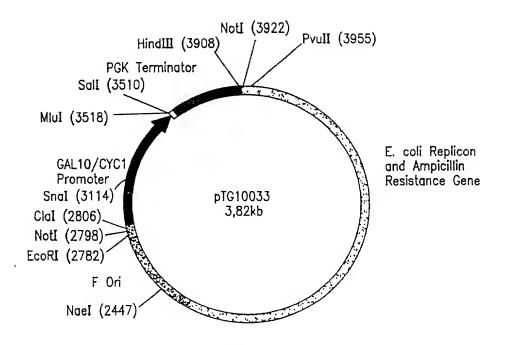


FIG. 49

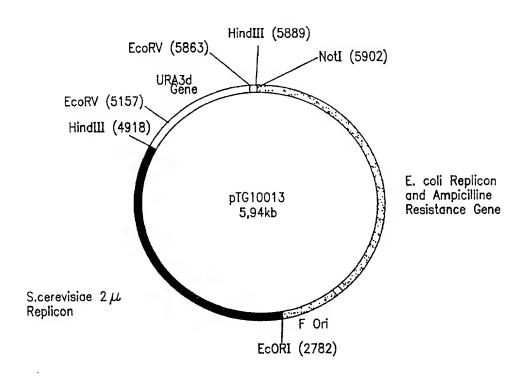


FIG. 50

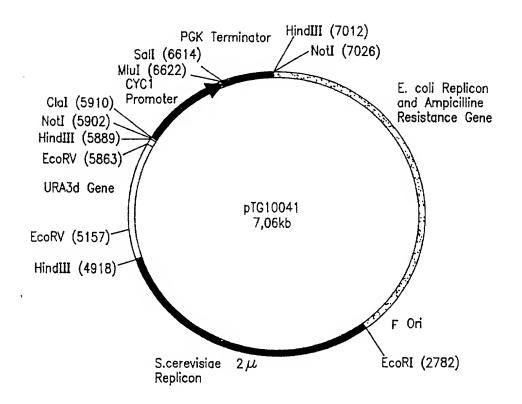


FIG. 51

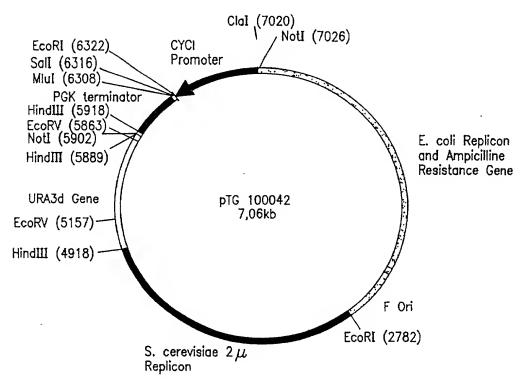


FIG. 52

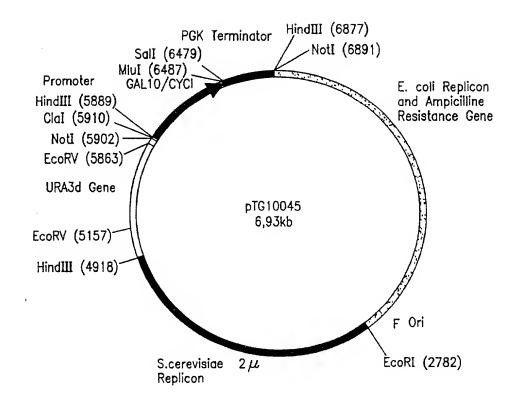


FIG. 53

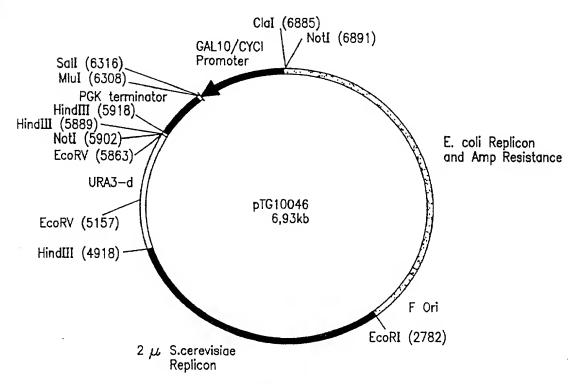


FIG. 54

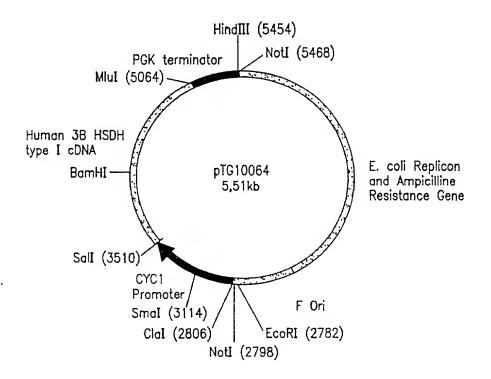


FIG. 55

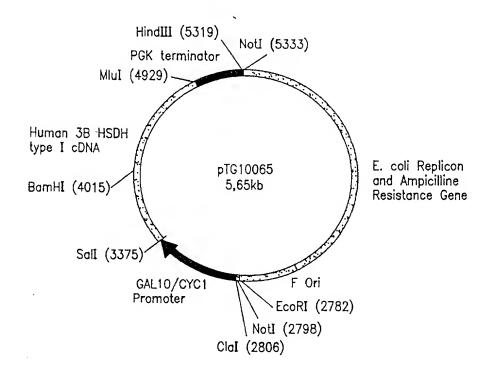


FIG. 56

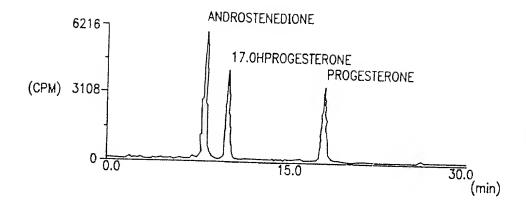


FIG. 57A

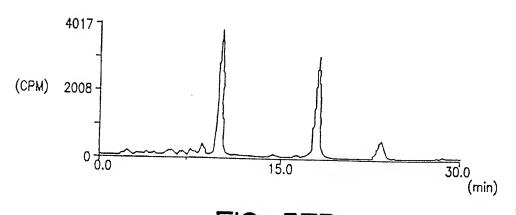


FIG. 57B